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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Office of the Secretary Of Defense **Date:** February 2018

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 6: RDT&E Management Support</i>					R-1 Program Element (Number/Name) PE 0604875D8Z / <i>Joint Systems Architecture Development</i>							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	16.154	2.948	4.851	4.088	0.000	4.088	5.878	5.763	5.419	5.518	Continuing	Continuing
P875: <i>Portfolio Systems Acquisition (PSA)</i>	15.956	2.852	3.451	2.688	0.000	2.688	4.478	4.363	4.019	4.118	Continuing	Continuing
P220: <i>Electronic Warfare Executive Committee</i>	0.198	0.096	1.400	1.400	0.000	1.400	1.400	1.400	1.400	1.400	Continuing	Continuing

Note

The FY2019 funding request was reduced by \$1.083 million to account for the availability of prior year execution balances.

A. Mission Description and Budget Item Justification

Department and acquisition reform initiatives call for top down, national security strategy-driven capabilities-based planning. Department of Defense (DoD) Instruction 5000.02 and Chairman of the Joint Chiefs of Staff Instruction 3170.01 promulgate capabilities-based requirements and acquisition processes. The JSAD program enables collaborative efforts to achieve these goals with a focus on Major Defense Acquisition Programs (MDAPs). These efforts include warfighting capability-based analyses; assessments of joint capability areas and joint integrating concepts; development of system-related data; integrated roadmaps to support acquisition investment decisions; and assessments of MDAPs in a capability area context. Activities in the JSAD project are divided into three areas: (1) capability-based analysis; (2) roadmaps; and (3) support tools and guidance. Capability-based analysis provides analysis of the different technology, functionality, and integration impacts of systems on warfighting capability. Acquisition roadmaps guide systems development and associated investment plans. JSAD support tools and guidance initiatives develop systems data, and tools, exploit modeling and simulation and architecture efforts to improve DoD's overall assessment capability. These efforts guide the development and improve the testing and fielding of integrated systems of systems in order to achieve Joint mission capabilities. The Department has also undergone an institutional reorientation or shift in emphasis from organization-specific to enterprise-wide approaches. This means: (1) horizontal integration within the Department and unity of effort through greater interagency collaboration; (2) engaging in a coordinated and portfolio-based approach to planning, programming, budgeting and execution; and (3) significant reforms at the governance, management and execution levels. To accomplish this direction, there needs to be a focused goal and concerted emphasis on shifting from systems acquisition to capabilities-based portfolio management (or portfolio systems acquisition). This program enables collaborative efforts to implement the QDR direction outlined above in order to achieve portfolio systems acquisition goals. The program is broken up into two focus areas (Portfolio Management and Reform Initiatives).

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B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	4.499	4.851	5.206	0.000	5.206
Current President's Budget	2.948	4.851	4.088	0.000	4.088
Total Adjustments	-1.551	0.000	-1.118	0.000	-1.118
• Congressional General Reductions	-1.400	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• FFRDC Reduction	-0.003	-	-	-	-
• Leadership Adjustment	-0.148	-	-0.035	-	-0.035
• Other Adjustments	-	-	-1.083	-	-1.083

Change Summary Explanation

Nominal increase in program will result in an increased focus on increased level of effort for land warfare and munitions and electronic warfare studies.

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Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0604875D8Z / Joint Systems Architecture Development				Project (Number/Name) P875 / Portfolio Systems Acquisition (PSA)			
COST (\$ in Millions)	Prior Years ⁽⁺⁾	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
P875: Portfolio Systems Acquisition (PSA)	15.956	2.852	3.451	2.688	0.000	2.688	4.478	4.363	4.019	4.118	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

⁽⁺⁾ The sum of all Prior Years is \$0.004 million less than the represented total due to several projects ending

A. Mission Description and Budget Item Justification

The Departments 2005 Quadrennial Defense Review (QDR) laid out the need for an institutional reorientation or shift in emphasis from organization-specific to enterprise-wide approaches. This meant: (1) horizontal integration within the Department and unity of effort through greater interagency collaboration; (2) engaging in a coordinated and portfolio-based approach to planning, programming, budgeting and execution; and (3) significant reforms at the governance, management and execution levels. The Department's 2010 QDR report further addressed reforming how we buy, noting that the conventional acquisition process is too long and too cumbersome to fit the needs of the many systems that require continuous changes and upgrades - a challenge that will become only more pressing over time. Better Buying Power (BBP) is the implementation of best practices to strengthen the Defense Department's buying power, improve industry productivity, and provide an affordable, value-added military capability to the Warfighter. Launched in 2010, BBP encompasses a set of fundamental acquisition principles to achieve greater efficiencies through affordability, cost control, elimination of unproductive processes and bureaucracy, and promotion of competition. BBP initiatives also incentivize productivity and innovation in industry and Government, and improve tradecraft in the acquisition of services. The Department will improve how it matches requirements with mature technologies, maintains disciplined systems engineering approaches. To accomplish this direction, there needed to be a focused goal and concerted emphasis on shifting from acquisition of individual systems to portfolio management (or portfolio systems acquisition). This program enables collaborative efforts to implement the QDR direction outlined above and advance BBP initiatives to achieve portfolio systems acquisition goals and to develop and implement acquisition reform initiatives.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Portfolio Systems Acquisition (PSA)	2.852	3.451	2.688	0.000	2.688
Description: The program is broken up into two focus areas (Portfolio Management and Reform Initiatives) and consolidates work previously performed under various other Program Elements.					
FY 2018 Plans: -Continue and expand support Mission Area Portfolio Assessments and warfare areas to identify portfolio and program synergies, reduce duplication, and identify opportunities for cost savings. -Conduct additional analyses and support implementation of updated Better Buying Power (BBP) initiatives. -Provide technical expertise in support of warfare area portfolios.					

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Appropriation/Budget Activity 0400 / 6		R-1 Program Element (Number/Name) PE 0604875D8Z / <i>Joint Systems Architecture Development</i>		Project (Number/Name) P875 / <i>Portfolio Systems Acquisition (PSA)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)						
		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<ul style="list-style-type: none"> -Assess progress of program management initiatives and continue support to a variety of certification and qualification standards activities. -Continue "reliability by design", capability, capacity, and lethality analyses and support to programs. -Update roadmaps and where appropriate generate new roadmaps to guide investments in critical areas (e.g., future vertical lift, unmanned systems, ground vehicles, weapons/munitions and Integrated Air and Missile Defense (IAMD)). -Continue analytical support for the IAMD portfolio. -Provide analytical support for the munitions process, from requirements generation to demilitarization. <p>FY 2019 Base Plans:</p> <ul style="list-style-type: none"> -Continue and expand support Mission Area Portfolio Assessments and warfare areas to identify portfolio and program synergies, reduce duplication, and identify opportunities for cost savings. -Conduct additional analyses and support implementation of updated Better Buying Power (BBP) initiatives. -Provide technical expertise in support of warfare area portfolios. -Assess progress of program management initiatives and continue support to a variety of certification and qualification standards activities. -Continue "reliability by design", capability, capacity, and lethality analyses and support to programs. -Update roadmaps and where appropriate generate new roadmaps to guide investments in critical areas (e.g., future vertical lift, unmanned systems, ground vehicles, weapons/munitions and Integrated Air and Missile Defense (IAMD)). -Continue analytical support for the IAMD portfolio. -Continue analytical support for the munitions process, from requirements generation to demilitarization. <p>FY 2019 OCO Plans:</p> <ul style="list-style-type: none"> -N/A <p>FY 2018 to FY 2019 Increase/Decrease Statement: FY2019 increase will result in greater focus on land warfare studies.</p>						
Accomplishments/Planned Programs Subtotals		2.852	3.451	2.688	0.000	2.688
C. Other Program Funding Summary (\$ in Millions)						
N/A						
Remarks						

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D. Acquisition Strategy Not Applicable		
E. Performance Metrics Not Applicable		

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Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0604875D8Z / Joint Systems Architecture Development				Project (Number/Name) P220 / Electronic Warfare Executive Committee			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
P220: Electronic Warfare Executive Committee	0.198	0.096	1.400	1.400	0.000	1.400	1.400	1.400	1.400	1.400	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
The Electronic Warfare (EW) Executive Committee (EXCOM) - co-chaired by the Under Secretary of Defense for Acquisition, Technology and Logistics and the Vice Chairman of the Joint Chiefs of Staff - is tasked to provide senior oversight, coordination, budget/capability harmonization, and advice on EW matters to the Secretary of Defense, Deputy Secretary of Defense, and the Deputy's Management Action Group. This program develops, maintains, and implements the overarching DoD EW Strategy and Implementation Plan to achieve Electromagnetic Spectrum (EMS) superiority. This program provides technical analyses, technology assessments, capability and capability gap identification, intelligence and threat evaluations to inform DoD EW requirements, acquisition programs, and investment decisions. This program also advances EW needs in modeling, simulation, test, exercises, experimentation, and training.												
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Electronic Warfare Executive Committee								0.096	1.400	1.400	0.000	1.400
Description: Funds are to conduct analytic assessments, threat-projective red-teaming, and physics-based modeling of electronic warfare capabilities to support the Deputy Secretary of Defense-directed Electronic Warfare (EW) Executive Committee (EXCOM).												
FY 2018 Plans: - Perform analytic underpinning for EW Strategy implementation, for synchronization of Services' EW investments, and for advancing DoD EW capabilities, training, exercises, modeling and simulation.												
FY 2019 Base Plans: - Develop plans and conduct Doctrine, Organization, Training, Material, Leadership and Education, Personnel, Facilities and Policy (DOTMLPF-P initiatives to implement the Department's EW strategy. - Continue to perform the necessary analytic underpinning to develop and field advanced EW capabilities, including EW manning, training, exercises, modeling and simulation.												
FY 2019 OCO Plans: N/A												
FY 2018 to FY 2019 Increase/Decrease Statement:												

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B. Accomplishments/Planned Programs (\$ in Millions)				FY 2017	FY 2018
				FY 2019 Base	FY 2019 OCO
				FY 2019 Total	
N/A					
Accomplishments/Planned Programs Subtotals				0.096	1.400
				1.400	0.000
				1.400	
C. Other Program Funding Summary (\$ in Millions)					
N/A					
Remarks					
D. Acquisition Strategy					
Not Applicable					
E. Performance Metrics					
Not Applicable					